

Title (en)
QUARLS IN A BURNER

Title (de)
BRENNERSTEINE IN EINEM BRENNER

Title (fr)
ENTOURAGES DE BRÛLEUR

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Abstract (en)
[origin: EP2107309A1] The invention relates to a quarl of a burner (1) for a gas turbine engine, in which fuel and air is mixed and provided to the burner (1) and wherein a quarl (4a, 4b, 4c) is arranged to house a main flame (7). It is one object to improve stability of the combustion process. According to the invention stability is achieved by a quarl, which is formed from a plurality of quarl sections (4a, 4b, 4c), wherein each quarl section (4a, 4b, 4c) has the configuration of the conical shell of a truncated cone and being distributed consecutively one after the other in the downstream direction of the burner (1), wherein a most narrow part of the shell of a downstream quarl section (4b) surrounds the widest part of the shell of the closest upstream quarl section (4a) and wherein an annular channel (10, 11) for premixed air and fuel is arranged between two consecutive quarl sections (4a, 4b).

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